

Engine platform TCD 3.9/4.0 reduces complexity and operating costs

- Compact 4-liter engine platform for an output range from 75 to 130 kW
- Low total cost of ownership thanks to low-maintenance, efficient engine concept
- Multi-power label enables flexible power adaptation for the customer

Cologne, 27 February 2026 – With the TCD 3.9/4.0 engine platform, DEUTZ is presenting a drive solution for mobile machinery that is consistently designed for efficiency and flexibility. The power range from 75 to 130 kW is covered by a single base engine with a 4-liter displacement in the installation space of a 3.6-liter unit. The aim is to significantly reduce complexity in development, production, and service by means of identical external geometry and identical interfaces – while at the same time sustainably lowering the total cost of ownership (TCO). The TCD 3.9/4.0 engines address two classic displacement segments: while the TCD 3.9 variant with an output range from 75 to 110 kW can replace engines with 3.4 to 3.9 liters, the TCD 4.0 with 110 to 130 kW positions itself as an alternative for 4.0 to 4.5-liter applications. This enables OEMs to realize a broad spectrum of different applications based on a single base engine – from construction and agricultural machinery to stationary units and generators, right through to machines for demanding underground mining operations.

At the same time, the TCD 3.9/4.0 engine impresses with high torque in the lower speed range and a torque plateau of 700 newton meters. Its robust architecture enables reliable, continuous operation even under full load and in the most demanding applications.

Required power via multi-power label

One advantage of the platform is the multi-power label. It makes it possible to define the desired performance level by means of a data set update only shortly before or even after integration into the machine. As a result, manufacturers no longer need to physically stock different power variants on the assembly line. Inventory, logistics, and production planning are significantly simplified, while at the same time ensuring a rapid response to market fluctuations.

Minimal operating costs

With a specific fuel consumption of only 198 g/kWh, the TCD 3.9/4.0 ranks among the most efficient engines in its class. Maintenance-free components such as the hydraulic valve lash adjustment and the gear drive of the camshaft reduce service costs. Oil change intervals are 500 hours as standard and can be extended to 1,000 hours with a special oil filter.

Future-proof exhaust aftertreatment

The engines meet EU Stage V and US EPA/CARB Tier 4 final requirements without exhaust gas recirculation, using a DOC, DPF and SCR system. Dispensing with exhaust gas recirculation also reduces cooling requirements and thus the installation space needed in the application. The clamped exhaust system enables rapid replacement or cleaning of the DPF without welding work or special tools.

With the TCD 3.9 / 4.0 platform, DEUTZ is consistently pursuing a strategy to reduce variant diversity and system complexity. For OEMs, this means significantly lower development and production costs. Operators benefit from low fuel consumption, long service intervals, and high machine availability – key factors for sustainably reducing TCO.

The engine company.



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Über die DEUTZ AG

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